

Name \_\_\_\_\_ Period \_\_\_\_\_

Geometry Unit 11 Worksheet #8 - Surface Area and Volume of a Sphere

For #1 – 4, find the surface area and volume of the sphere. Leave in terms of  $\pi$ .

1.  $r = 5$  in

2.  $d = 14$  cm

3.  $r = 12$  ft

4.  $d = 22$  m

For #5-8, find the surface area and volume of the sphere. Round to the hundredths place.

5.  $r = 14.5$  cm

6.  $d = 3.4$  ft

7.  $r = 21.7 \text{ in}$

8.  $d = 9.6 \text{ m}$

For #9-12, find the surface area and volume of the hemisphere. Round to the hundredths place.

9.  $r = 3.7 \text{ m}$

10.  $d = 12.5 \text{ yds}$

11.  $r = 17.3 \text{ ft}$

12.  $d = 6.3 \text{ m}$